

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-20 (cancelled).

21. (currently amended) ~~a~~ A structural element (10) comprising a plurality of body segments (11) of a foamed, thermoplastic material that are arranged next to each other and joined together on a plane, wherein the structural element (10) is made wholly of plastic and the body segments (11) are welded together at abutting side faces forming weld seams (12, 13), whereby the weld seams (12, 13) form a substantially pore-free intermediate plastic layer in the form of a network of stiffening struts.

22. (previously presented) A structural element according to claim 21, wherein the body segments are made of a closed-cell foam material.

23. (previously presented) A structural element according to claim 22, wherein the thermoplastic material is polyethylene-terephthalate (PET) or styrene/acrylnitrile-copolymer (SAN).

24. (previously presented) A structural element according to claim 21, wherein the weld seams comprises melted plastic of the body segments (11).

25 (previously presented) A structural element according to claim 24, wherein of the weld seams (12, 13) have a thickness such that a network-like strut structure is formed by the weld seams which increases the compressive strength of the structural element (10) with respect to surface pressure.

26. (previously presented) A structural element according to claim 21, wherein the body segments (11) are formed from lengths cut from rod-shaped or column-shaped foam bodies (7).

27. (previously presented) A structural element according to claim 26, wherein the rod-shaped or column-shaped foam bodies (7) are formed by means of extrusion, and the direction of extrusion in the body segments (11) manufactured from the foam bodies (7) lies substantially parallel to a line of intersection of two crossing weld seam (12, 13).

28. (previously presented) A structural element according to claim 27, wherein the body segments (11) comprises a stretched polymer structure in a direction of extrusion.

29. (previously presented) A structural element according to claim 21, wherein the body segments (11) have a cross-section which enables the body segments to be fitted together without interruption.

30. (previously presented) A structural element according to claim 21, wherein the body segments (11) have a polygonal shape.

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31. (previously presented) A structural element according to claim 21, wherein the structural element (10) is a plastic sheet.

32-39 (canceled).